

APPLICATION FOR UNITED STATES PLANT PATENT

for

CHRYSANTHEMUM PLANT NAMED 'JENNY WREN CRIMSON'

by

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This application claims the benefit of U.S. Provisional Application No. 60/421,389, filed October 25, 2002.

LATIN NAME OF THE GENUS AND SPECIES

Botanical classification: *Chrysanthemum morifolium*.

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VARIETY DENOMINATION

The new Chrysanthemum variety denomination is 'Jenny Wren Crimson.'

BACKGROUND OF THE INVENTION

The present invention comprises a new and distinct cultivar of Chrysanthemum botanically known as *Chrysanthemum morifolium*, and referred to by the cultivar name 'Jenny Wren Crimson.'

'Jenny Wren Crimson,' identified as 30017-2, originated from a whole plant mutation grown in a controlled planting of the variety 'Jenny Wren' (U.S. Plant Patent No. 10,213) in Chichester, West Sussex, United Kingdom. The new variety 'Jenny Wren Crimson' has been asexually reproduced by vegetative cuttings in Chichester, West Sussex, United Kingdom and the distinguishing characteristics are retained through successive generations of asexual reproduction.

BRIEF SUMMARY OF THE INVENTION

'Jenny Wren Crimson' is a garden type of Chrysanthemum plant variety having a domed canopy of bright crimson decorative flowers.

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Comparison with Parent

Plants of the new Chrysanthemum variety 'Jenny Wren Crimson' are similar to the parent variety 'Jenny Wren' in plant habit and growth rate. In side-by-side comparisons in Chichester, West Sussex, United Kingdom, under commercial practice, plants of the new Chrysanthemum variety 'Jenny Wren Crimson' differed from plants of the parent 'Jenny Wren' in the following characteristic.

1. The new variety 'Jenny Wren Crimson' produces crimson flowers whereas the parent 'Jenny Wren' produces purple flowers.

Comparison with Other Varieties

Plants of the new Chrysanthemum variety 'Jenny Wren Crimson' are dissimilar to the variety 'Bravo' (U.S. Plant Patent No. 6,888) in plant habit and growth rate. In side-by-side comparisons in Chichester, West Sussex, United Kingdom, under commercial practice, plants of the new Chrysanthemum variety 'Jenny Wren Crimson' differed from plants of the cultivar 'Bravo' in the following characteristics.

1. The new variety 'Jenny Wren Crimson' produces more and larger flowers than 'Bravo.'
2. The new variety 'Jenny Wren Crimson' has a more domed and round habit than 'Bravo.'
3. The new variety 'Jenny Wren Crimson' is usually more vigorous than 'Bravo.'

BRIEF DESCRIPTION OF ILLUSTRATION

Typical specimens of the plant and flowers for the new Chrysanthemum variety 'Jenny Wren Crimson' are shown in the accompanying digital photograph. The colors shown are as true as possible within the usual limits of this kind of illustration. Figure 1 is a whole plant view of the new variety 'Jenny Wren Crimson' grown in a pot. The plant shown in the illustration is 63 days from the commencement of planting outdoors in mid-June.

DETAILED BOTANICAL DESCRIPTION

The following description of the new Chrysanthemum variety 'Jenny Wren Crimson' is of plants grown outside, natural season, in Chichester, West Sussex, United Kingdom in the month of June. The cultivar has not been observed under all possible environmental conditions. The phenotype may vary significantly with variations in the environment such as temperature, length of day and light intensity, without any variance in genotype. The commercial classification of the new variety is a garden Chrysanthemum.

Plants of the new variety have been grown successfully under temperature conditions averaging about 50°F at night and about 70°F to 75°F during the day under natural light conditions. The plants were grown outdoors in mid-June in 4 liter pots using a loamless compost. No growth retardants were used. To produce a commercial product

the plants may be pinched once with the center bud removed. The typical container size for commercial growth is 4 liters (8"). It has been observed that the shelf life of the new variety is about 30 days with a response time of about 9 weeks natural season. The new variety is suitable for growth in a temperature range of 50°F to 75°F.

- 5 The new variety may be produced as a pot plant. The following description is with respect to a plant produced as a garden pot plant. In the description of this new Chrysanthemum variety, color values have been taken from the Royal Horticultural Society Colour Chart (R.H.S.C.C.).

Plant

- 10 Plant type: Pot
 Habit: Domed - Round
 Height: 45 cm
 Width: 55-60 cm
 Branching characteristics: Curving and Free Branching
- 15 Length of Lateral Branches: 16-35 cm
 Number of Breaks from Pinch: 7-9
 Stem Color: near 147A
 Response Time: 63 days natural season
 Vigor: Medium/Tall
- 20 Shelf Life: near 30 days
 Disease (Susceptibility/Resistance observed): None observed to date
 Pest (Susceptibility/Resistance observed): None observed to date
 Growth retardant type and treatment: No treatment necessary
 The plants were grown for 9 weeks in natural season conditions.
- 25 Propagation:
 Type: Vegetative Propagation via Stem Cuttings
 Time to rooting: 12 days with soil temperatures of 70°F
 Rooting habit: Fine and Fibrous

Foliage

Number of Leaves Per Lateral Branch: 7-9

Compound or single: Single

Arrangement of Leaves: Alternate

5 Shape of Leaf: Typically 5 lobed ovate

Size of Leaf: *Width* (cm): 2.8-5 *Length* (cm): 4.5-8

Leaf Apex: Acute

Base: Obtuse

Attachment: Petioled

10 Aspect: Slightly Undulating

Margin: Palmately Lobed

Surface characteristics: *Top*: Slightly Pubescent

Bottom: Slightly Pubescent

Petiole: *Color*: near 146A

15 *Length*: 1-1.8 cm

Venation : Net prominent mid-vein at underside

Color: upper side: near 146C

under side: near 146C

Color: Mature Leaf, *upper side*: near 147A; *under side*: near 147B

20 Young Leaf, *upper side*: near 147A; *under side*: near 147B

Flower

Flower appearance: Matte

Flower type: Decorative

Flower form: Slightly Incurving

25 Flower shape: Round

Flowering habit: Cyme

Number of blossoms per branch: 5-7

Inflorescence form: Corymbose

Depth of fully expanded blossoms: 3 cm

Diameter of fully expanded blossoms: 4.5-5.5 cm

- Phyllaries: *Number:* 20-22
Color: near 138A
5 *Length:* 0.8-1 cm
Width: 1.5-2 mm
Texture/Appearance: Pubescent
- Pedicel: *Length:* terminal: 4-6 cm; lateral: 5-7 cm
Color: near 147C
10 *Surface:* Pubescent
Habit: Slightly Curving
Strength: Medium/Strong
- Ray florets: *Form/Shape:* Straight
Texture/Appearance: Matte
15 *Number per flower:* 180-195
Length: 1.5-3 cm; *Width:* 3-5 mm
Apex: Rounded, Slightly Dentate
Base: Tubular/Tapered
Margin: Entire
- 20 Disc florets: *Form/Shape:* Cylindrical
Texture/Appearance: Shiny
Number per flower: 2 observed
Length: 5mm; *Width:* <1 mm
Diameter of disc: 1 mm
- 25 Fragrance: None
- Flower Bud (at onset of color):
Length: 1 cm
Diameter: 0.9 cm
Form/Shape: Globular
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General flower color:

1. Ray florets, *upper side*:
Immature: near 181A
Mature: near 182A
5 *Older/Fading*: near 179A
2. Ray florets, *under side*:
Immature: near 181A
Mature: near 182A
Older/Fading: near 179A
- 10 3. Disc florets:
Immature: near 179B
Mature: near 179B
Older/Fading: near 179D
4. Bud: near 181A
- 15 Flower progression with age: Flowers fade uniformly with age and the petals roll to form tubes.

Reproductive Organs

Gynoecium present on Ray and Disc florets.

Ray florets per individual flower:

- 20 *Pistil number*: 35-40 observed
Stigma color: near 144D
Stigma shape: Forked
Style color: near 144D
Style length: 1.5-2 mm

- 25 Disc florets per individual flower:

Pistil number: 2
Stigma color: near 144D
Stigma shape: Forked

Style color: near 144D

Style length: 1.5 mm

Androecium not observed.

Fruit and Seeds: None observed